SMC®
Networks

SMCBR24Q
Baricade™ 4-port
Wired Broadband QoS Router

USER GUIDE

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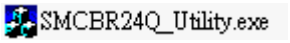
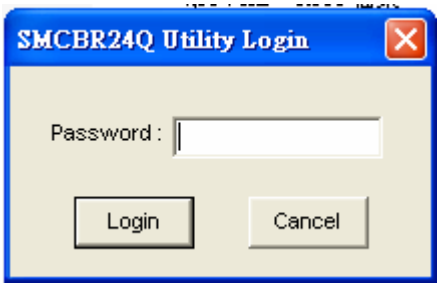
Utility – Internet Passport

The SMCBR24Q provides the Utility – Internet Passport for home users. The Internet Passport provides Parents the Family Member's passport for doing parental control, and it includes **On-Line Scheduler**, **Web Site Hit Rate**, **Real Time Application Usage** and **Performance Optimization**. Parents can closely monitor when, how and where children are spending their Internet time. In addition, Parents can do the bandwidth management for individual family member and specific application by using the Utility, and it provides better service and quality to the home network.

1. Login



Click the icon to access the Utility and the following Login web page will show up.



Enter Password then click Login. The default Password is 'smcadmin'. If you wan to log out, click Cancel. The Password will be synchronized with that of the router.

2. Topology

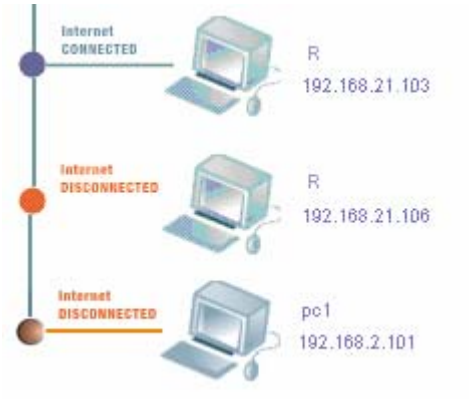
The Utility can real-time detect the network status.

Connection Status

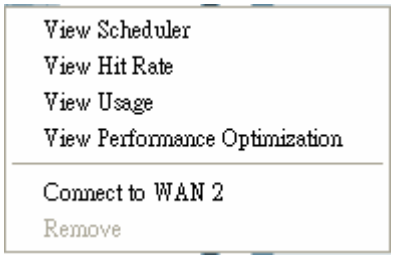
Router status: Users can know the network connection status from the earth. The earth will rotate when the router is connecting to the internet.

WAN 1 / WAN 2 status: Click the left button of the mouse to switch to the other WAN port, click the right button

to view and edit the WAN configuration. As you change the WAN port, the topology will change accordingly. If dual WANs are used, you can see who go through WAN 1 and who go through WAN 2 from the topology. The default is WAN 1. If only single wan is used, the status of the other wan port will be shown as NOT AVAILABLE.



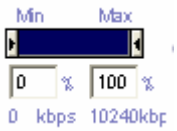
Family Member's PC status: All PCs once connected to the SMCBR24Q will be recorded and displayed in the topology. **Off-line PCs** will be shown as Internet Disconnected without the line segment between orange dot and the PC icon (See the second PC icon from the top), and **On-line PCs** will be shown as Internet Connected (See the first PC icon from the top). PCs with blue dots on the left side can connect to the internet, and **blocked PCs** with orange dot and the line segment between orange dot and the PC icon cannot access the Internet. (See the third PC icon from the top). For the PCs connecting to the internet, the dot will be flickering. Parents can forbid the selected family member's PC from connecting to the internet by clicking the blue dot on the left side and it will turn to orange. In the same way, parents can click orange dot again, and the selected family member's PC can access the Internet. The Host Name and IP Address of all family members' PCs will display, and you can click the right button of the mouse to rename the host for your family member.



Select family member's PC, and click the right button of mouse, the following tools will be provided.

1. View button: Click View Scheduler / View Hit Rate / View Usage / View Performance Optimization button to view the page of individual family member's passport.
2. Connect to WAN 1/2: You can click the button to connect to the other WAN port if dual-wan are used.
3. Remove: You can click the Remove button to remove the selected PC from the topology. Because the PC once connected to your home network – perhaps occasional visitor – will be recorded, and you can use this tool to remove the PC you don't need to manage from the topology.

Bandwidth Control



You can control the left slider for guaranteeing bandwidth, and right slider for limiting bandwidth for individual family member, and percentage and bandwidth (kbps) of min and max will display accordingly. The default will be no guarantee and limit bandwidth, so the default min rate is 0% and max rate is 100%. You can allocate the guaranteed bandwidth for all family members, and the total min bandwidth is 100% of the max bandwidth provided by ISP. For example, if the max upstream bandwidth provided by ISP is 512Kbit/sec, and you allocate 50% for user A, and he will get 256Kbit/sec guaranteed bandwidth. The max bandwidth user A can use will be 512Kbit/sec, but you also can lower the max bandwidth to limit the bandwidth for this user. For example, if you limit the max as 70%, the max bandwidth user A can use will be around 358Kbit/sec.

PassPort Configuration

Click PassPort Configuration in the lower left corner. The following PassPort Configuration web page will show up. The password is synchronized with that of the router.

Old Password:

Enter the old password. The default Password is ‘admin’ when you first log in the Utility.

(Note: The password cannot be recovered if it is lost or forgotten. If the password is lost or forgotten, you have to reset the Router to its factory default state.)

New Password:

Enter a new password for the Utility. Your password must be less than 64 characters long and it can’t contain any spaces.

Confirm New Password:

Re-enter the password for confirmation.

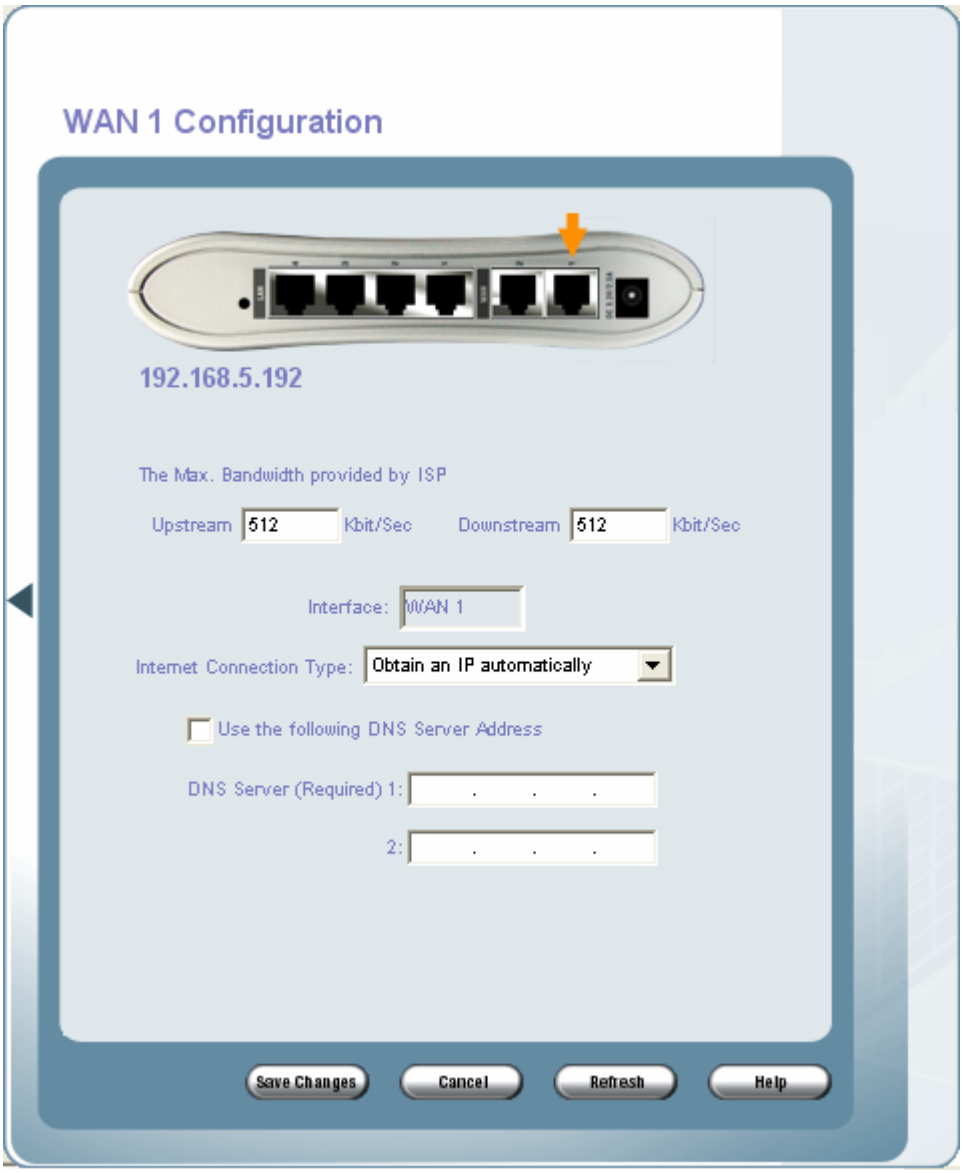
Click the **Save Changes** button to save the settings, click the **Cancel** button to undo your changes

3. Internet Passport

Router Information

Click the SMCBR24Q icon, and the router information will appear. It includes serial number, firmware version, WAN IP, connection type and bandwidth. If dual wan are used, you can see who go through WAN 1 and who go through WAN 2 here. In addition, the real time percentage of bandwidth usage for individual family member will display, and the usage percentage is based on the bandwidth provided by ISP. Parent can decide whether needs to adjust the min or max bandwidth for family member by this bandwidth usage information.

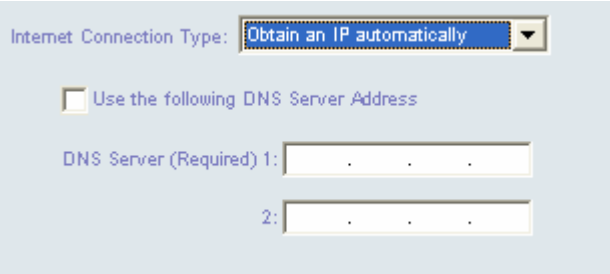
WAN Configuration



ISP Bandwidth: Fill in the upstream and downstream bandwidth provided by ISP. The default is 512Kbit/sec.

Internet Connection Type: There are four types of Internet connection. Obtain and IP automatically, Static IP, PPPoE and PPTP.

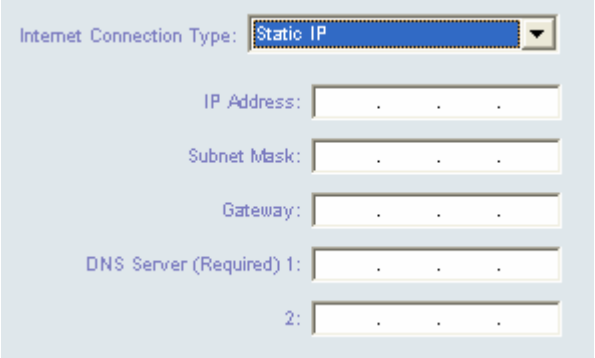
1. **Obtain an IP automatically**:



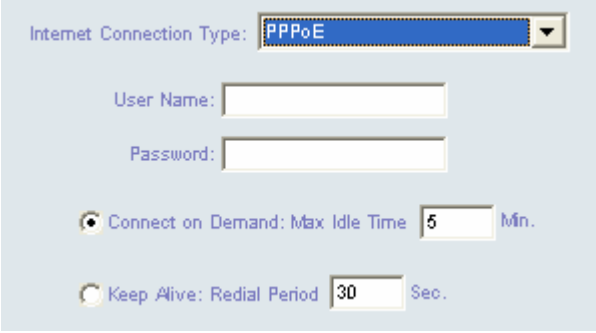
If your ISP is running a DHCP server, select Obtain an IP automatically option. Your ISP will assign these values, includes DNS Server automatically. Or users can check the box of **Use the Following DNS Server Addresses**, and enter the specific DNS Server IP. Multiple DNS IP Settings are common. In most cases, the first available DNS entry is used.

2. Static IP:

If you have a specify Internet IP Address, Subnet Mask, Default Gateway Address and DNS Server, select Static IP. You can get this information from your ISP.



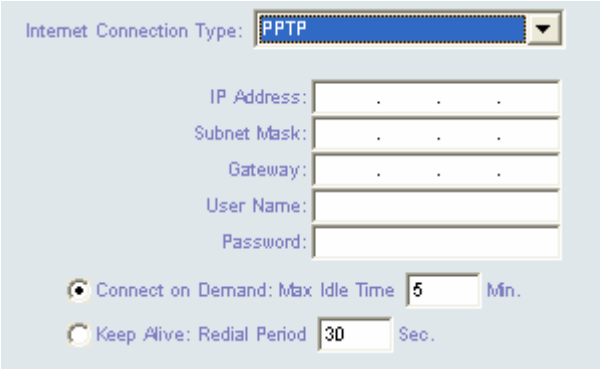
3. **PPPoE** (Point-to-Point Protocol over Ethernet):



You have to check with your ISP to make sure whether PPPoE should be enabled or not.

1. Enter your **Username** and **Password**.
2. If you select **Connect on Demand** option, the PPPoE connection will be disconnected if it has been idle for a period longer than the **Max Idle Time** setting.
3. If you select Keep Alive option, the Router will keep the connection alive by sending out a few data packets at **Redial Period,** so your Internet service thinks that the connection is still alive.

4. **PPTP** (Point-to-Point Tunneling Protocol):



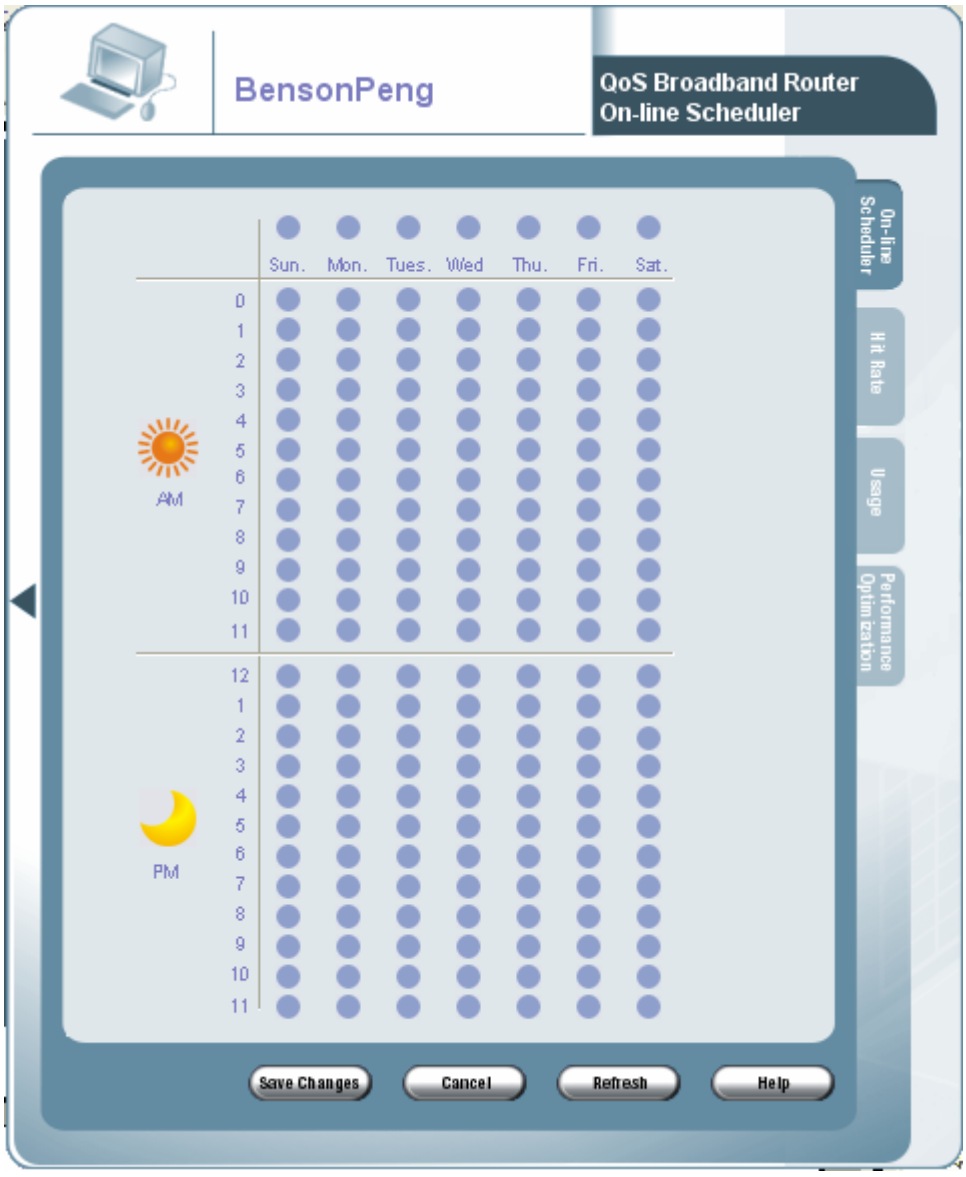
1. Enter the Specify WAN IP Address, Subnet Mask and Default Gateway Address that is the PPTP server's IP that resides in the Modem.
2. Enter your **Username** and **Password**.
3. If you select **Connect on Demand** option, the connection will be disconnected if it has been idle for a period longer than the **Max Idle Time** setting.
4. If you select **Keep Alive** option, the Router will keep the connection alive by sending out a few data packets at **Redial Period,** so your Internet service thinks that the connection is still alive.

Click the **Save Changes** button to save the settings, click the **Cancel** button to undo your changes or click the **Refresh** button to update the data. For more information on this tab, you can click the **Help** button.

Family Member's Internet Passport

Click the selected Family Member's PC and the Internet Passport will display. You can click the arrow button to close the Internet Passport screen. The SMCBR24Q provides four parental control tools, On Line Scheduler, Hit Rate, Usage and Performance Optimization.

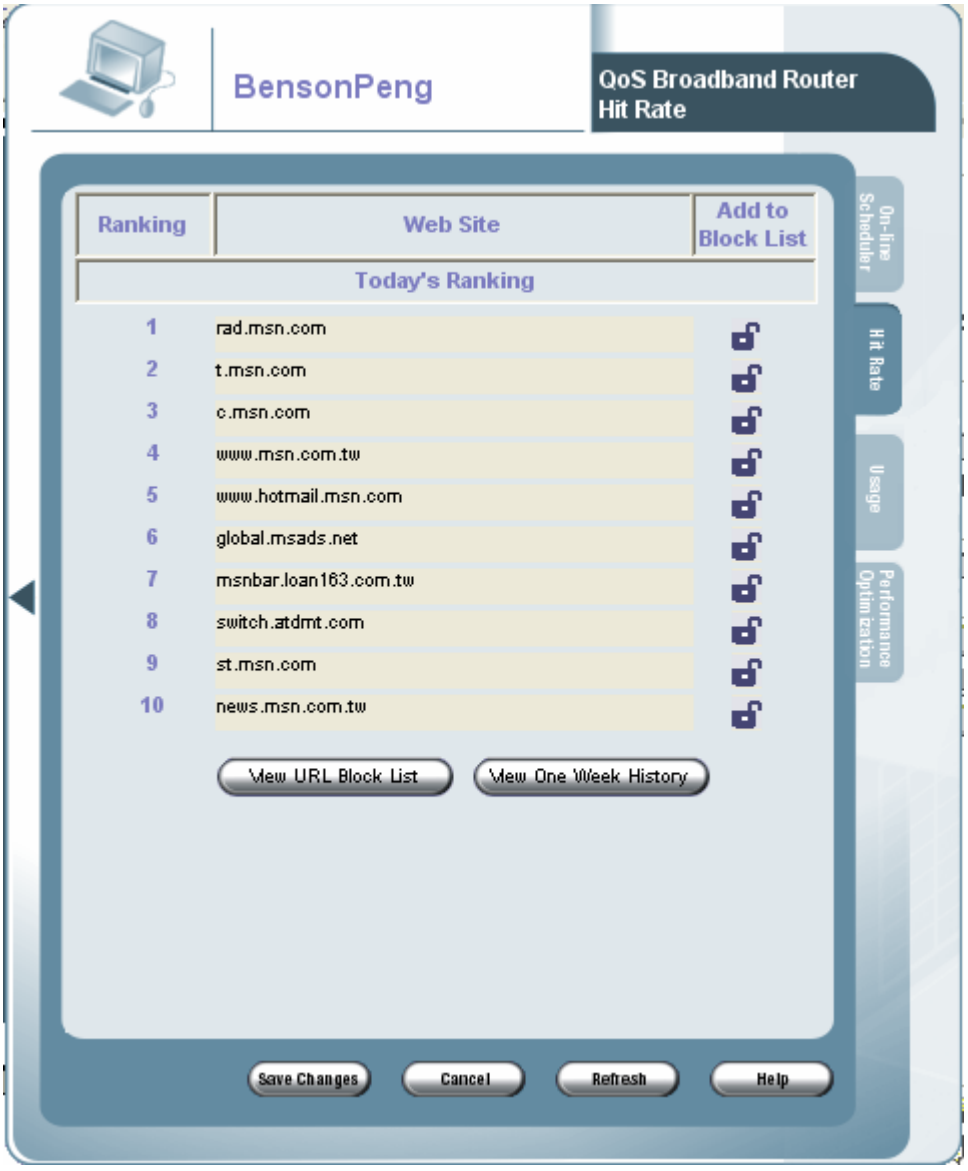
On Line Scheduler



On the On Line Scheduler screen, click any hour to allow or deny Internet access. To allow or deny Internet access for an entire day, click the button above the day. To allow or deny Internet access for an entire AM or PM, click the Sun or Moon button for an entire time period. Blue indicates allowed Internet access, and red indicates blocked Internet access. Default is allowed.

Click the **Save Changes** button to save the settings, click the **Cancel** button to undo your changes or click the **Refresh** button to update the data. For more information on this tab, you can click the **Help** button.

Hit Rate

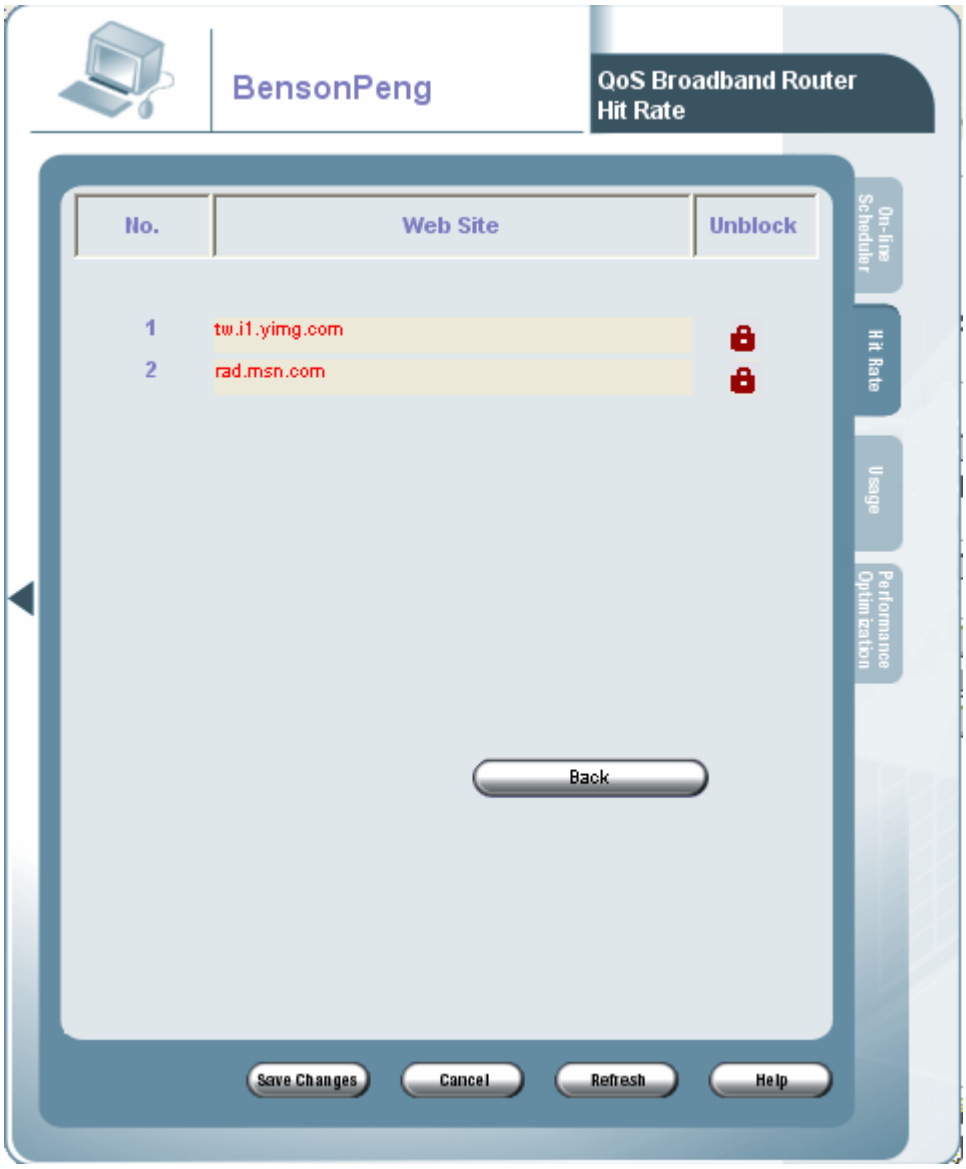


The **Hit Rate** tab shows the top 10 websites by frequency the selected family member has visited by the end of today and their related information, **Today's Ranking** and **Web site**. This also allows you to block or unblock the selected website.

Today's Ranking: The rankings of the top 10 websites are in a descending order.
Web site: Click the website address and Internet Explorer will open at that address to find out the site contents.

Add to Block List: Click the lock icon to block the web site, and it will turn to locked and red. Click again to unblock the site. The blue open lock icon means “unblock” and the red locked lock means “block”. The default is “unblock”. After you click the Save Changes button, the web site you blocked will be listed in the Block List. You can click the **View URL Block List** button to view the block list you set up for this family member.

Click the **Save Changes** button to save the settings, click the **Cancel** button to undo your changes or click the **Refresh** button to update the data. For more information on this tab, you can click the **Help** button.



View Block List: Click the button to see the blocked websites. Click the downward arrow button to view next 20 block list.

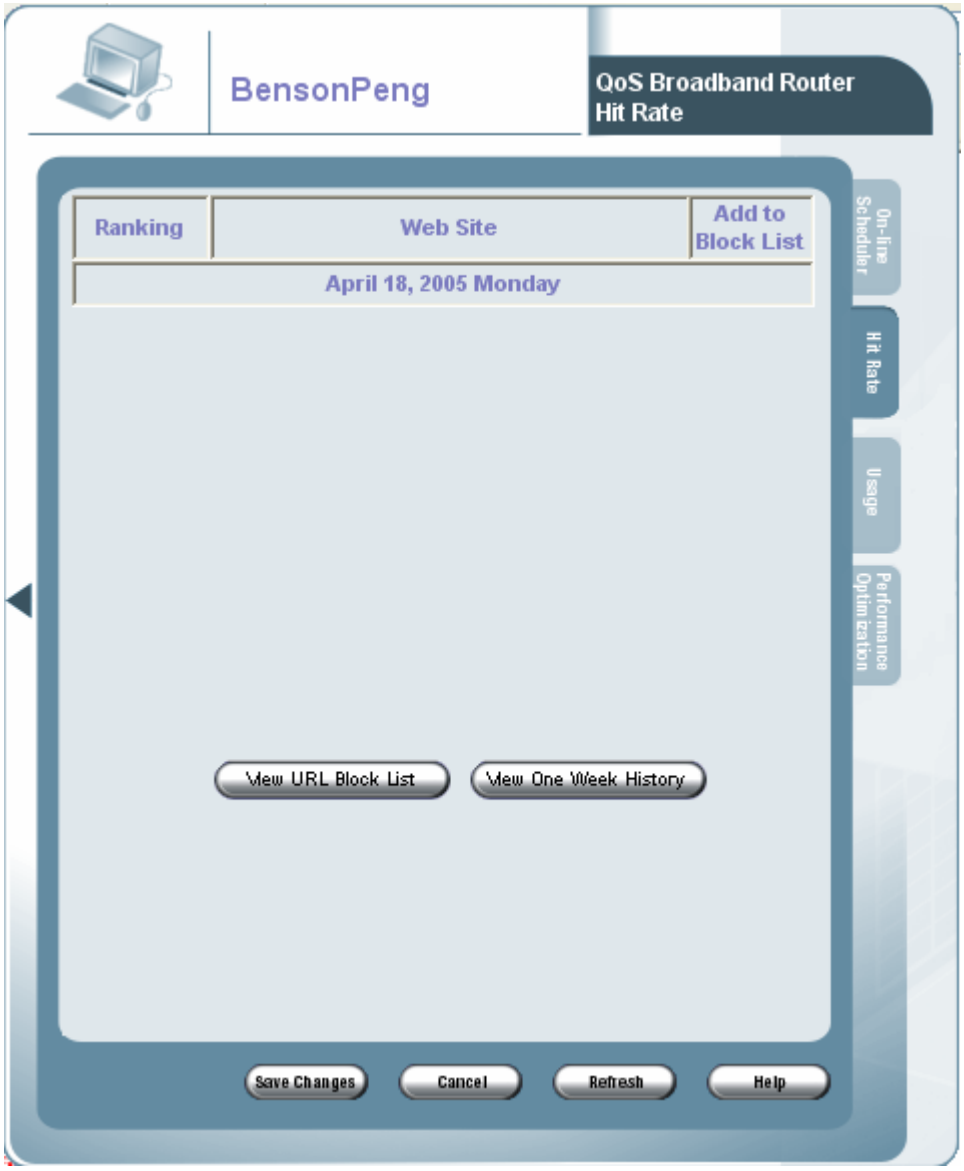
Number: This show how many websites are blocked.

Web site: Click the website address and Internet Explorer will open at that address to find out the site contents.

Unblock: You can cancel your settings by clicking the lock icon, and the website will turn to unblock.

View One Week History
April 20, 2005 Wednesday (Today)
April 19, 2005 Tuesday
April 18, 2005 Monday
April 17, 2005 Sunday
April 16, 2005 Saturday
April 15, 2005 Friday
April 14, 2005 Thursday

View One Week History: Click the button and you will see the dates of the last six days. Put your mouse over the selected date and click to view the top 10 websites for that date and their related information.



Date: The date you're viewing is displayed.

Ranking: The rankings of the top 10 websites of the selected date are in a descending order.

Web site: Click the website address and Internet Explorer will open at that address to find out the site contents.

Add to Block List: Click the lock icon to block the site. Click again to unblock the site. The blue open lock icon means "unblock" and the red locked lock means "block". The default is "unblock".

Click the **Save Changes** button to save the settings, click the **Cancel** button to undo your changes or click the **Refresh** button to update the data. For more information on this tab, you can click the **Help** button.

Usage

This **Usage** tab shows the current usage of the top 20 applications. You can know what applications consume most bandwidth currently.

Ranking: The rankings of the top 20 applications by bandwidth consumption are in a descending order.

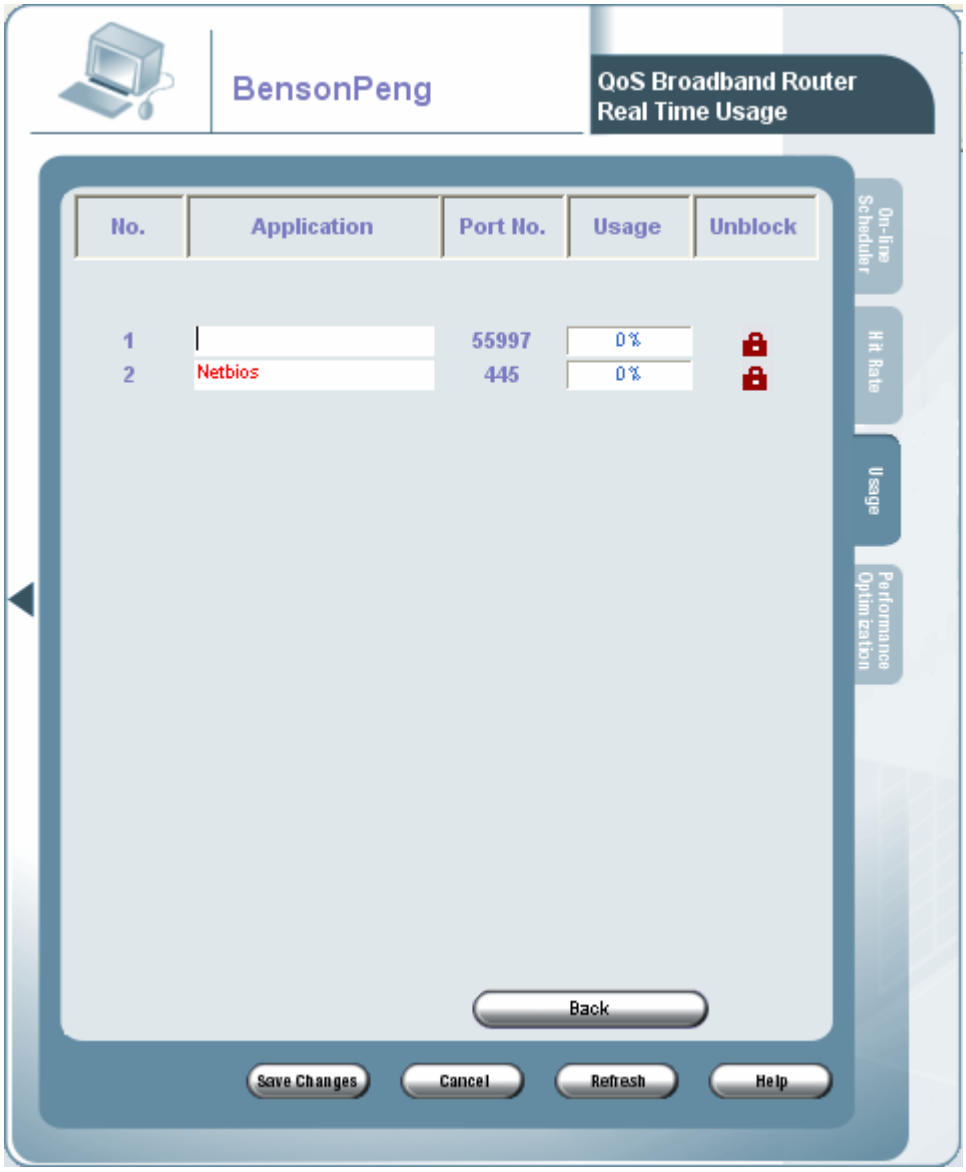
Application: The field shows the top 20 application names. For the blank field, you can enter the application name you desire.

Usage: This charts the current usages of the top 20 applications by percentage of this family member's usable bandwidth.

Add to Block List: Click the lock icon to block the application. Click again to unblock the application. The blue

open lock icon means “unblock” and the red locked lock means “block”. The default is “unblock”.

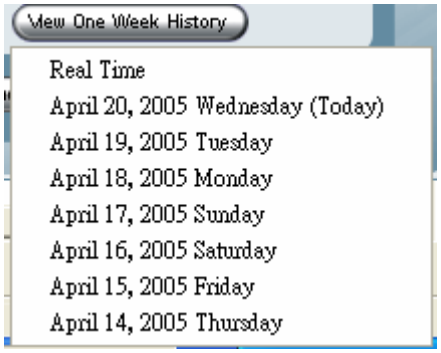
View Application Block List: Click the button to see the blocked applications. Move the scroll button down the bar to see all applications.



Number: This show how many applications are blocked.

Application: The field shows the blocked application names.

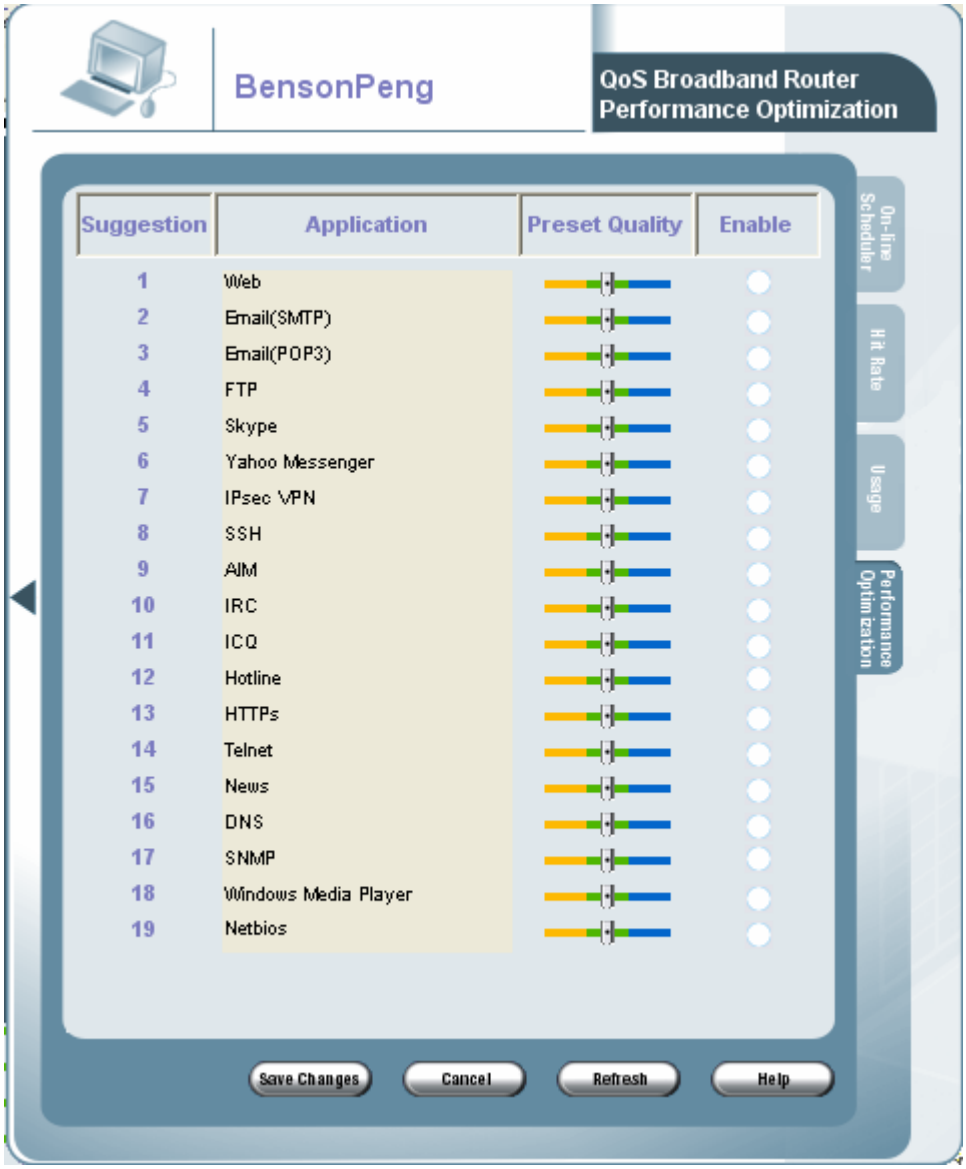
Unblock: You can cancel your settings by clicking the lock icon. The blue open lock icon means “unblock” and the red locked lock means “block”. The default is “block”.



View One week History: Click the button and you will see the dates of the last six days. Put your mouse over the selected date and click to view the usages of the top 20 applications for that date and their related information.

Click the **Save Changes** button to save the settings, click the **Cancel** button to undo your changes or click the **Refresh** button to update the data. For more information on this tab, you can click the **Help** button.

Performance Optimization



The screen displays the built-in 19 suggested applications where you can optimize their performance and view their **Application** names and the usage **Quality**. Before enable the bandwidth suggestion, please make sure you have allocated the min bandwidth for this family member.

Suggestion: You can see the total number of the suggested applications

Application: The field shows the 19 suggested application names.

Quality: After **Performance Optimization** for one application is enabled, the slider will stop in the middle of the green bar, meaning a good performance level. Move the **Slider** left to the middle of the orange bar, a normal level or right to the middle of the blue bar, a better level.

Enable: To enable **Performance Optimization** click the dot once. Click again to undo your setting. If enabled, the dot is blue. If disabled, the dot is white. The default is “disable”.

If you set up new rule of Performance Optimization via UI, the new rule will be also displayed here.

Performance Optimization Cross-Reference Table

The table below shows the built-in bandwidth information for each application. There are three performance levels, “Normal”, “Good”, and “Better”. “Normal” is half the value of “Good”. “Better” is one and half the value of “Good”.

	Application Names	Normal	Good	Better
1	**Web**	80kbps	160kbps	240kbps
2	**Send Email (SMTP)**	40kbps	80kbps	120kbps
3	**Receive Email (POP3)**	80kbps	160kbps	240kbps
4	**FTP**	40kbps	80kbps	120kbps
5	**Skype**	16.5kbps	33kbps	49.5kbps
6	**Yahoo Messenger**	40kbps	80kbps	120kbps
7	**IPsec VPN**	20kbps	40kbps	60kbps
8	**SSH**	40kbps	80kbps	120kbps
9	**AIM**	4kbps	8kbps	12kbps
10	**mIRC Chat**	16.5kbps	33kbps	49.5kbps
11	**ICQ**	16.5kbps	33kbps	49.5kbps
12	**Hotline**	16.5kbps	33kbps	49.5kbps
13	**HTTPs**	40kbps	80kbps	120kbps
14	**Telnet**	4kbps	8kbps	12kbps
15	**News**	20kbps	40kbps	60kbps
16	**DNS**	0.12kbps	0.24kbps	0.36kbps
17	**SNMP**	2kbps	4kbps	6kbps
18	**Windows Media Player**	150kbps	300kbps	450kbps
19	**NetBIOS**	40kbps	80kbps	120kbps

Click the **Save Changes** button to save the settings, click the **Cancel** button to undo your changes

or click the **Refresh** button to update the data. For more information on this tab, you can click the **Help** button.

FOR TECHNICAL SUPPORT, CALL:
From U.S.A. and Canada (24 hours a day, 7 days a week)
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World Wide Web:
http://www.smc.com/

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France:	33 (0) 1 55 64 04 55	Fax 33 (0) 45 34 68 58
Italy:	39 02 739 12 68	Fax 39 02 739 14 17
Benelux:	31 (0) 654 776 790	Fax 31 (0) 172 242 393
Central Europe:	49 (0) 89 92861-0	Fax 49 (0) 89 92861-230
Nordic and Baltics	46 (0) 566 622 83	Fax 45 (0) 566 622 86
Eastern Europe:	420 266 794 421	Fax 420 266 794 423
Sub- Saharan Africa:	27 012 661 0232	Fax 34 93 471 3374
North West Africa:	34 93 477 4920	Fax 34 93 477 3774
CIS:	34 93 477 4920	Fax 34 93 477 3774
PRC:	86-10-6235-4958	Fax 86-10-6235-4962
Taiwan:	886-2-87978006	Fax 886-2-87976288
Asia Pacific:	(65) 238 6556	Fax (65) 238 6466
Korea:	82-2-553-0860	Fax 82-2-553-7202
Japan:	81-45-224-2332	Fax 81-45-224-2331
Australia:	61-2-8875-7887	Fax 61-2-8875-7777
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If you are looking for further contact information, please visit www.smc.com.

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